Future Flight Design			
2006 Science			
Content Standards			
Montana Science			
Grades 5-8			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	MT	SCI.5-8.1.1	identify a question, determine relevant variables and a control, formulate a testable hypothesis, plan and predict the outcome of an investigation, safely conduct scientific investigation, and compare and analyze data
Air Transportation Problem	MT	SCI.5-8.1.2	select and use appropriate tools including technology to make measurements (in metric units), gather, process and analyze data from scientific investigations
Air Transportation Problem	MT	SCI.5-8.1.3	review, communicate and defend results of investigations, including considering alternative explanations
Air Transportation Problem	MT	SCI.5-8.5.3	simulate collaborative problem solving and give examples of how scientific knowledge and technology are shared with other scientists and the public
Aircraft Design Problem	MT	SCI.5-8.1.5	identify strengths and weakness in an investigation design
Aircraft Design Problem	MT	SCI.5-8.2.4	model and explain the states of matter are dependent upon the quantity of energy present in the system and describe what will change and what will remain unchanged at the particulate level when matter experiences an external force or energy change
Aircraft Design Problem	MT	SCI.5-8.2.5	describe and explain the motion of an object in terms of its position, direction, and speed as well as the forces acting upon it
Aircraft Design Problem	MT	SCI.5-8.2.6	identify, build, describe, measure, and analyze mechanical systems (e.g., simple and complex compound machines) and describe the forces acting within those systems